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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,170	07/30/2003	William J. Donakowski	71503	1898
7590 11/16/2004		EXAMINER		
Howard Cohen			NGUYEN, HOANG M	
1105 The Alameda Berkeley, CA 94707-2501			ART UNIT	PAPER NUMBER
			3748	<u> </u>

DATE MAILED: 11/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/632,170	DONAKOWSKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Hoang M Nguyen	3748			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be tineeply within the statutory minimum of thirty (30) day od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status .					
1) Responsive to communication(s) filed on	•				
2a) This action is FINAL. 2b) ⊠ TI	his action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice unde					
Disposition of Claims					
 4) ☐ Claim(s) 1-30 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-30 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and 	rawn from consideration.				
Application Papers		,			
9)☐ The specification is objected to by the Exami	ner.	•			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the	Examiner. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) A) Interview Summary (PTO-413) Paper No(s)/Mail Date					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 		Patent Application (PTO-152)			

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Claims 1-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It's unclear the specific meaning of the term "passive shape memory alloy".

Please provide specific definition in the specification.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 8-14, 24-25, are rejected under 35 U.S.C. 102(b) as being anticipated by US 4706758 (Johnson).

Johnson discloses a shape memory alloy actuator comprising a first memory alloy actuator 17 for driving a valve element in the first direction, a latch 14, and a second passive shape memory alloy element 62 being responsive to ambient temperature to control the movement of the latch.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 7 is rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 4706758 (Johnson). Johnson discloses all the claimed subject matter as set forth above, but does not disclose the specific mounting configuration of the shape memory alloy as claimed. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to mount the shape memory alloy in Johnson in the specific configuration as claimed for the purpose of achieving work outputs in those specific directions.

Claims 1-30 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over the claims of U.S. Patent No. 6762515 or US 6326707 in view of US 4706758.

The US patents recites all the claim subject matter with the exception of the passive shape memory alloy to activate the latch. Johnson discloses a shape memory alloy actuator comprising a first memory alloy actuator 17 for driving a valve element in the first direction, a latch 14, and a second passive shape memory alloy element 62 being responsive to ambient temperature to control the movement of the latch. It would have been obvious to provide a latch and a passive SMA element in the inventions as claimed in US 6762515 or US 6326707 for the purpose of controlling the movement of said SMA actuators.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11

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F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gilman et al, and Barnes et al disclose SMA actuators having passive SMA alloys.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (703) 308-3477. The examiner can normally be reached on Monday--Thursday from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion, can be reached on (703)-308-2623. The fax phone number for the Examiner is (703) 872-9302 for regular communication, and (703) 872-9303 for after final communication.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (70%) 308-0861.

HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 11/13/04